Table 1. Infrared Sources in the S233IR Region

Source (1)	α_{1950} (2)	δ_{1950} (3)	J (4)	H (5)	K (6)	A_V (7)	M[l] (8)
IR 1[a]	05 35 52.1	+35 42 34.2	15.14 ± 0.04	14.69 ± 0.06	14.39 ± 0.07	—	—
IR 2[a]	05 35 51.8	+35 42 39.1	13.95 ± 0.02	12.97 ± 0.04	12.62 ± 0.05	8.28[e]	4.0
IR 3[a]	05 35 49.5	+35 42 34.9	15.59 ± 0.01	14.62 ± 0.02	14.17 ± 0.07	5.85[e]	1.0
IR 4	05 35 46.7	+35 42 36.5	17.64 ± 0.06	16.84 ± 0.04	16.17 ± 0.10	—	0.1
IR 5	05 35 45.1	+35 42 43.1	18.09 ± 0.12	16.96 ± 0.05	16.34 ± 0.11	2.03[d]	0.1
IR 6[a]	05 35 47.6	+35 42 44.4	11.58 ± 0.02	10.87 ± 0.03	10.30 ± 0.06	—	3.2
IR 7[a]	05 35 52.6	+35 42 48.2	15.84 ± 0.01	15.23 ± 0.02	15.25 ± 0.09	2.18[e]	1.0
IR 8	05 35 52.8	+35 42 52.7	18.60 ± 0.10	16.85 ± 0.06	16.34 ± 0.18	11.85[e]	0.6
IR 9[a,k]	05 35 53.0	+35 42 58.5	16.22 ± 0.01	15.57 ± 0.02	15.26 ± 0.10	1.67[e]	0.8
IR 10	05 35 48.6	+35 42 50.1	15.84 ± 0.02	14.82 ± 0.04	14.38 ± 0.06	6.65[e]	1.0
IR 11	05 35 44.5	+35 42 51.2	17.13 ± 0.07	16.00 ± 0.04	15.63 ± 0.09	6.68[e]	0.6
IR 12[a,k]	05 35 42.4	+35 42 51.6	12.78 ± 0.02	12.54 ± 0.04	12.44 ± 0.07	1.29[e]	3.0
IR 13	05 35 53.9	+35 42 54.2	19.78 ± 0.24	18.47 ± 0.14	17.29 ± 0.20	0.00[d]	0.1
IR 14	05 35 46.6	+35 42 54.1	18.81 ± 0.14	17.85 ± 0.08	17.05 ± 0.14	—	0.1
IR 15[c]	05 35 47.5	+35 43 47.6	16.92 ± 0.04	15.59 ± 0.06	14.64 ± 0.08	1.89[d]	0.2
IR 16	05 35 49.4	+35 43 00.6	18.23 ± 0.09	16.59 ± 0.04	15.42 ± 0.07	4.16[d]	0.2
IR 17[a]	05 35 44.1	+35 43 03.6	12.62 ± 0.02	11.80 ± 0.03	11.76 ± 0.04	7.69[e]	2.5
IR 18[k]	05 35 50.9	+35 43 03.8	17.72 ± 0.05	17.01 ± 0.05	16.66 ± 0.08	0.72[e]	0.2
IR 19[c]	05 35 47.7	+35 43 09.4	16.73 ± 0.05	15.59 ± 0.04	15.02 ± 0.08	7.34[e]	0.6
IR 20[c]	05 35 48.0	+35 43 09.1	15.34 ± 0.02	14.43 ± 0.02	14.14 ± 0.06	6.68[e]	1.0
IR 21[c]	05 35 45.9	+35 43 16.1	15.42 ± 0.02	14.22 ± 0.02	13.69 ± 0.11	10.37[e]	1.5
IR 22[k]	05 35 51.2	+35 43 13.2	17.88 ± 0.06	17.15 ± 0.08	16.87 ± 0.14	0.30[e]	0.2
IR 23[a]	05 35 51.4	+35 43 19.7	17.68 ± 0.07	15.15 ± 0.03	14.16 ± 0.04	21.42[e]	4.0
IR 24[a]	05 35 51.7	+35 43 20.3	14.60 ± 0.01	13.98 ± 0.02	14.00 ± 0.04	4.12[e]	1.0
IR 25[c]	05 35 47.1	+35 43 14.3	16.60 ± 0.03	15.42 ± 0.02	14.86 ± 0.06	8.34[e]	0.8
IR 26[c]	05 35 46.8	+35 43 15.8	17.39 ± 0.06	16.44 ± 0.05	15.69 ± 0.10	0.00[d]	0.2
IR 27	05 35 55.1	+35 43 16.5	16.91 ± 0.03	16.24 ± 0.04	15.57 ± 0.16	—	0.2
IR 28	05 35 55.4	+35 43 16.4	17.02 ± 0.04	15.78 ± 0.02	15.11 ± 0.11	2.97[d]	0.2
IR 29[c]	05 35 47.5	+35 43 21.4	16.54 ± 0.05	15.25 ± 0.06	14.82 ± 0.08	9.10[e]	1.0
IR 30[c]	05 35 47.6	+35 43 24.7	15.41 ± 0.02	14.35 ± 0.04	14.01 ± 0.06	8.20[e]	1.5
IR 31[c]	05 35 47.3	+35 43 27.9	14.98 ± 0.02	13.47 ± 0.03	12.85 ± 0.04	12.71[e]	5.0
IR 32[c]	05 35 48.0	+35 43 27.6	14.52 ± 0.02	12.83 ± 0.03	12.07 ± 0.04	14.48[e]	10.0
IR 33[c]	05 35 47.3	+35 43 32.5	17.65 ± 0.12	16.11 ± 0.10	15.34 ± 0.10	10.59[e]	0.8
IR 34	05 35 44.1	+35 43 23.1	19.26 ± 0.20	17.87 ± 0.12	17.09 ± 0.11	4.02[d]	0.1
IR 35[c]	05 35 46.3	+35 43 31.0	17.24 ± 0.03	16.35 ± 0.13	15.38 ± 0.06	∼8.44[h]	0.2
IR 36[c]	05 35 46.8	+35 43 31.1	16.57 ± 0.02	15.37 ± 0.06	14.42 ± 0.06	0.22[d]	0.3
IR 37	05 35 55.8	+35 43 23.6	17.13 ± 0.02	15.98 ± 0.02	15.10 ± 0.08	0.41[d]	0.2
IR 38[c]	05 35 48.8	+35 43 25.2	13.94 ± 0.03	12.59 ± 0.03	12.07 ± 0.05	11.56[e]	2.5
IR 39[c]	05 35 48.5	+35 43 29.8	16.47 ± 0.11	14.39 ± 0.07	14.11 ± 0.11	17.89[e,i]	—
IR 40[c]	05 35 48.8	+35 43 34.8	16.63 ± 0.13	14.55 ± 0.12	13.85 ± 0.08	17.71[e]	4.0
IR 41[c,f]	05 35 48.3	+35 43 39.0	12.27 ± 0.02	10.52 ± 0.05	9.36 ± 0.11	5.52[d]	4.6
IR 42[c]	05 35 50.0	+35 43 31.0	15.85 ± 0.02	14.80 ± 0.03	14.26 ± 0.06	6.72[e]	1.0
IR 43[a]	05 35 53.2	+35 43 35.6	13.09 ± 0.02	12.86 ± 0.03	12.97 ± 0.06	2.19[e]	2.5
IR 44[c]	05 35 49.7	+35 43 44.5	15.46 ± 0.02	13.82 ± 0.02	13.39 ± 0.06	13.64[e]	4.0
IR 45	05 35 44.6	+35 43 40.4	18.87 ± 0.17	17.18 ± 0.07	16.75 ± 0.09	9.04[e]	0.4
IR 46	05 35 42.9	+35 43 50.5	15.39 ± 0.03	14.45 ± 0.06	14.02 ± 0.04	6.87[e]	1.0
IR 47	05 35 43.6	+35 43 45.6	19.23 ± 0.20	18.13 ± 0.16	17.26 ± 0.17	0.00[d]	0.1
IR 48	05 35 51.8	+35 43 44.6	14.71 ± 0.02	13.26 ± 0.02	12.82 ± 0.03	11.80[e]	2.5
IR 49	05 35 53.1	+35 43 45.9	15.82 ± 0.03	14.42 ± 0.03	13.61 ± 0.04	3.90[d]	0.5
IR 50	05 35 45.1	+35 43 46.8	17.08 ± 0.06	15.95 ± 0.04	15.28 ± 0.07	1.58[d]	0.2
IR 51	05 35 45.4	+35 43 47.4	17.92 ± 0.11	16.62 ± 0.06	15.63 ± 0.08	1.35[d]	0.2
IR 52[a,k]	05 35 44.6	+35 43 49.3	13.71 ± 0.02	13.47 ± 0.02	13.37 ± 0.06	0.96[e]	2.0
IR 53	05 35 42.2	+35 43 49.6	17.97 ± 0.07	16.65 ± 0.04	15.76 ± 0.08	2.21[d]	0.2
IR 54[c]	05 35 46.4	+35 43 49.5	17.97 ± 0.06	16.22 ± 0.05	15.23 ± 0.07	6.86[d]	0.2
IR 55[b]	05 35 50.4	+35 44 04.5	16.96 ± 0.03	14.98 ± 0.03	14.42 ± 0.09	15.97[e]	2.0
IR 56[b]	05 35 51.2	+35 44 05.1	19.26 ± 0.22	16.19 ± 0.03	14.22 ± 0.09	15.51[d]	0.2

Table 1. Continued

Source (1)	α_{1950} (2)	δ_{1950} (3)	J (4)	H (5)	K (6)	A_V (7)	M[l] (8)
IR 57	05 35 44.6	+35 44 10.8	13.30 ± 0.01	11.82 ± 0.03	11.64 ± 0.05	13.64[e]	—
IR 58[b]	05 35 51.7	+35 44 15.7	18.89 ± 0.15	14.23 ± 0.07	11.60 ± 0.12	30.14[d]	0.9
IR 59[b]	05 35 52.0	+35 44 22.5	19.36 ± 0.21	16.72 ± 0.14	15.25 ± 0.19	14.18[d]	0.2
IR 60[b]	05 35 52.4	+35 44 23.9	19.25 ± 0.19	16.75 ± 0.14	15.03 ± 0.16	10.65[d]	0.2
IR 61	05 35 55.5	+35 44 14.6	18.42 ± 0.10	17.18 ± 0.05	16.28 ± 0.08	1.25[d]	0.1
IR 62[b]	05 35 53.2	+35 44 23.8	18.41 ± 0.10	15.78 ± 0.06	14.34 ± 0.08	14.13[d]	0.3
IR 63	05 35 55.2	+35 44 21.8	16.80 ± 0.03	16.48 ± 0.03	15.96 ± 0.07	—	0.1
IR 64[a]	05 35 56.6	+35 44 30.9	12.30 ± 0.01	11.63 ± 0.03	11.66 ± 0.06	5.77[e]	2.5
IR 65[b]	05 35 50.9	+35 44 31.6	18.26 ± 0.07	15.78 ± 0.04	14.57 ± 0.06	20.49[e]	2.0
IR 66[b]	05 35 52.3	+35 44 39.8	18.44 ± 0.07	16.84 ± 0.05	16.03 ± 0.09	9.50[e]	0.6
IR 67	05 35 55.7	+35 44 35.4	18.00 ± 0.09	17.42 ± 0.07	16.70 ± 0.13	—	0.1
IR 68	05 35 56.1	+35 44 39.2	19.02 ± 0.19	17.73 ± 0.09	16.79 ± 0.16	1.57[d]	0.1
IR 69	05 35 42.4	+35 44 33.9	19.27 ± 0.19	18.04 ± 0.13	16.73 ± 0.24	—	0.1
IR 70[k]	05 35 46.1	+35 44 37.2	16.52 ± 0.03	15.87 ± 0.03	15.58 ± 0.09	0.70[e]	0.8
IR 71[b]	05 35 50.0	+35 44 43.9	18.41 ± 0.12	15.51 ± 0.03	13.93 ± 0.08	16.57[d]	0.3
IR 72[b,j]	05 35 49.7	+35 44 49.1	17.13 ± 0.04	14.89 ± 0.03	13.88 ± 0.09	18.56[e]	4.0
IR 73	05 35 43.9	+35 44 48.7	17.18 ± 0.03	16.48 ± 0.04	15.70 ± 0.15	—	0.1
IR 74	05 35 52.1	+35 44 51.2	18.23 ± 0.05	16.89 ± 0.05	16.27 ± 0.10	6.66[e]	0.4
IR 75	05 35 52.4	+35 44 55.3	16.88 ± 0.02	15.83 ± 0.02	15.48 ± 0.07	5.84[e]	0.6
IR 76	05 35 52.0	+35 45 00.3	16.72 ± 0.02	15.92 ± 0.03	15.37 ± 0.09	—	0.2
IR 77/N2	05 35 50.4	+35 44 54.0	18.68 ± 0.11	17.24 ± 0.07	15.33 ± 0.06	—	—
IR 78	05 35 46.9	+35 45 08.1	16.40 ± 0.02	15.87 ± 0.03	15.32 ± 0.14	—	0.2
IR 79	05 35 52.7	+35 45 02.3	16.55 ± 0.05	15.40 ± 0.02	14.93 ± 0.04	8.15[e]	0.8
IR 80[a]	05 35 53.1	+35 45 05.2	13.68 ± 0.02	13.36 ± 0.01	13.40 ± 0.05	2.06[e]	2.0
IR 81/N1	05 35 50.0	+35 45 05.7	18.43 ± 0.08	17.91 ± 0.17	15.87 ± 0.20	—	—
IR 82	05 35 54.9	+35 45 05.4	18.50 ± 0.11	17.52 ± 0.07	16.48 ± 0.20	—	0.1
IR 83	05 35 44.0	+35 45 12.1	16.78 ± 0.03	16.13 ± 0.04	15.61 ± 0.13	—	0.2
IR 84[a]	05 35 49.2	+35 45 11.4	15.81 ± 0.02	15.31 ± 0.02	15.16 ± 0.10	0.26[e]	1.0
IR 85	05 35 57.1	+35 45 17.4	16.85 ± 0.05	16.13 ± 0.04	15.77 ± 0.08	1.76[e]	0.4
IR 86	05 35 52.0	+35 45 28.8	16.09 ± 0.01	15.37 ± 0.02	15.03 ± 0.07	3.06[e]	0.6
IR 87	05 35 55.6	+35 45 24.2	16.04 ± 0.02	15.54 ± 0.05	15.10 ± 0.07	—	0.2
IR 88[a]	05 35 42.3	+35 45 28.9	13.52 ± 0.02	13.03 ± 0.02	13.00 ± 0.05	3.78[e]	2.0
IR 89	05 35 48.7	+35 45 29.5	17.56 ± 0.04	16.10 ± 0.02	15.69 ± 0.23	10.23[e]	0.6
IR 90	05 35 50.5	+35 45 30.3	18.29 ± 0.08	17.34 ± 0.08	16.65 ± 0.12	0.00[d]	0.1
IR 91[a]	05 35 55.1	+35 45 30.9	15.32 ± 0.02	14.70 ± 0.02	14.47 ± 0.06	3.82[e]	1.0
IR 92	05 35 55.5	+35 45 33.6	16.26 ± 0.03	15.38 ± 0.03	14.88 ± 0.07	0.00[d]	0.3
IR 93[b]	05 35 51.1	+35 44 14.4	—	16.09 ± 0.12	12.96 ± 0.19	~15.06[g]	—
IR 94[b]	05 35 51.7	+35 44 11.5	—	15.91 ± 0.13	13.41 ± 0.11	~15.06[g]	—
IR 95[b]	05 35 52.5	+35 44 08.5	—	16.69 ± 0.09	14.78 ± 0.18	~15.06[g]	—
IR 96[b]	05 35 53.2	+35 44 01.7	—	16.02 ± 0.03	14.05 ± 0.07	~15.06[g]	—
IR 97[b]	05 35 50.0	+35 43 53.4	—	17.03 ± 0.07	15.12 ± 0.09	~15.06[g]	—
IR 98	05 35 50.6	+35 43 37.5	—	16.64 ± 0.06	14.53 ± 0.05	—	—

[a] Star with optical counterpart.
[b] NE cluster member.
[c] SW cluster member.
[d] CTT star with near-IR excess emission de-reddened in the J-H/H-K diagram.
[e] star with reddened main sequence colors de-reddened in the J/J-H diagram.
[f] Source IRAS 05358+3543.
[g] Average extinction of NE cluster.
[h] Average extinction of SW cluster.
[i] Unresolved pair of stars, magnitudes and A_V refer to pair.
[j] Star at edge of cluster radius, most likely also a member of NE cluster.
[k] Foreground star.
[l] Estimated stellar mass ($M_\odot$), c.f. §5.4.